

IOS Controller

Logic Diagrams

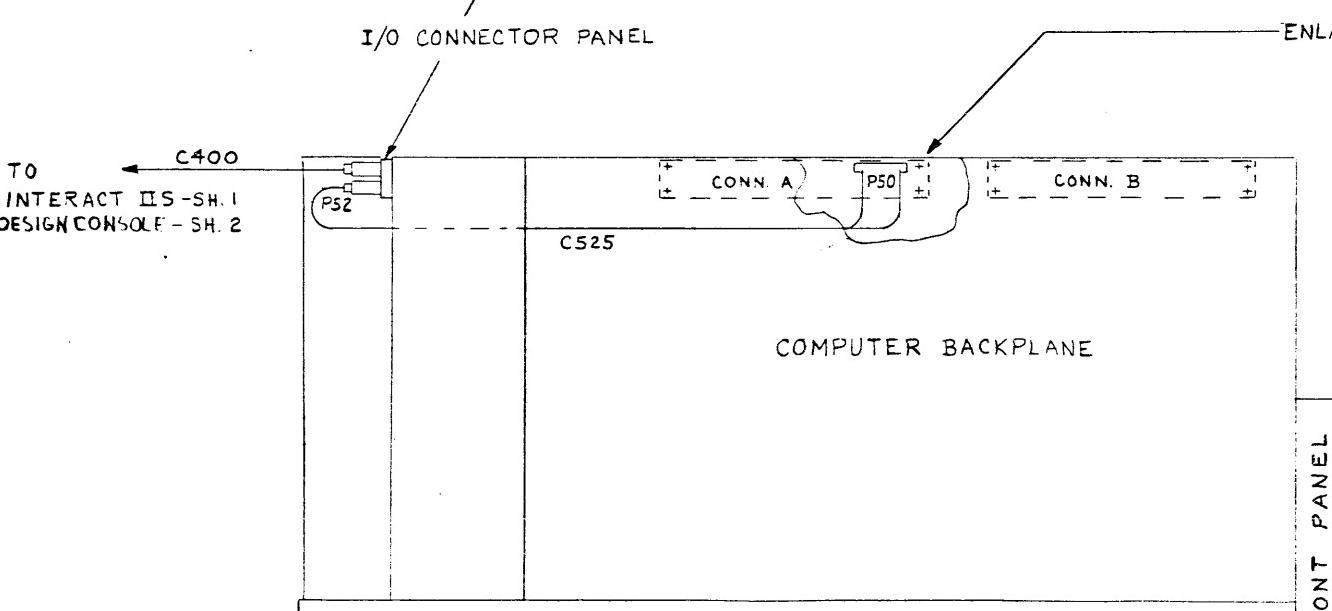
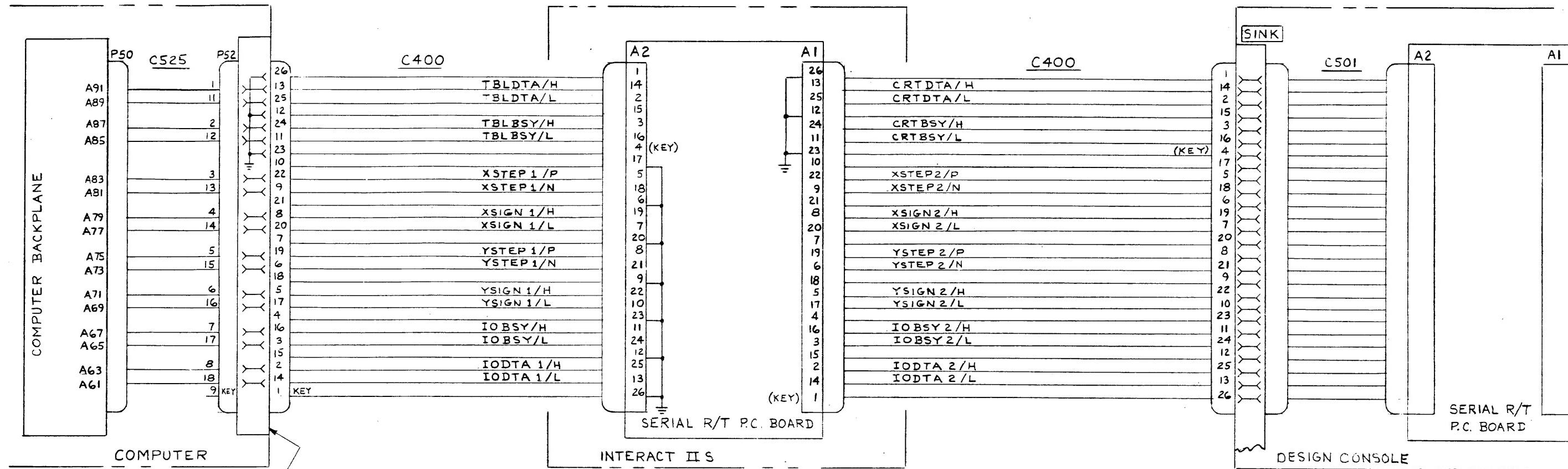
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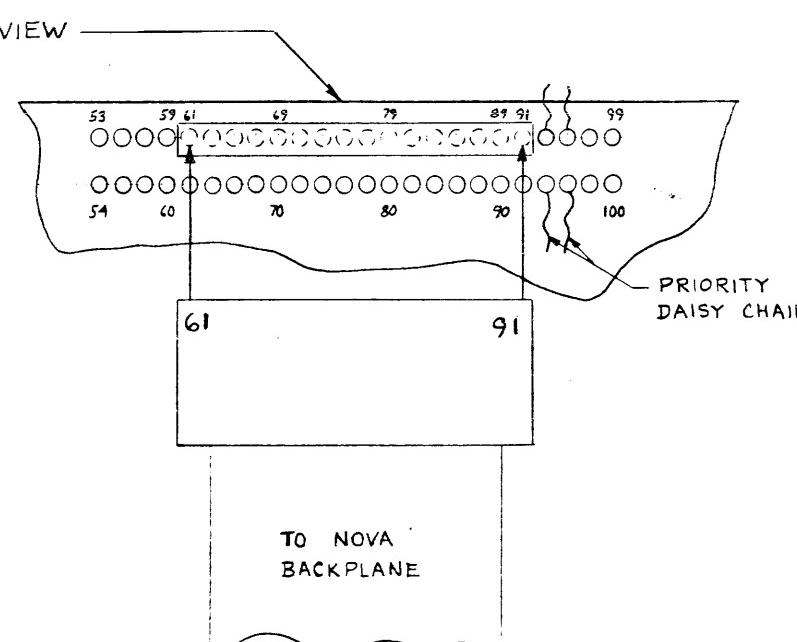
COMPUTERVISION CORP

L14X1020

MACHINE USED ON IOS CONTROLLER TITLE ELECTRONIC DOCUMENTATION PKG
ORIGINATOR R. Cheatham 8-29-73 NEXT ASBY MOD. LIST QTY - SHEET OF SHEE



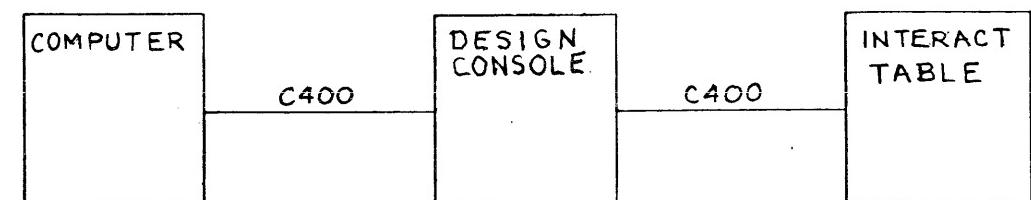
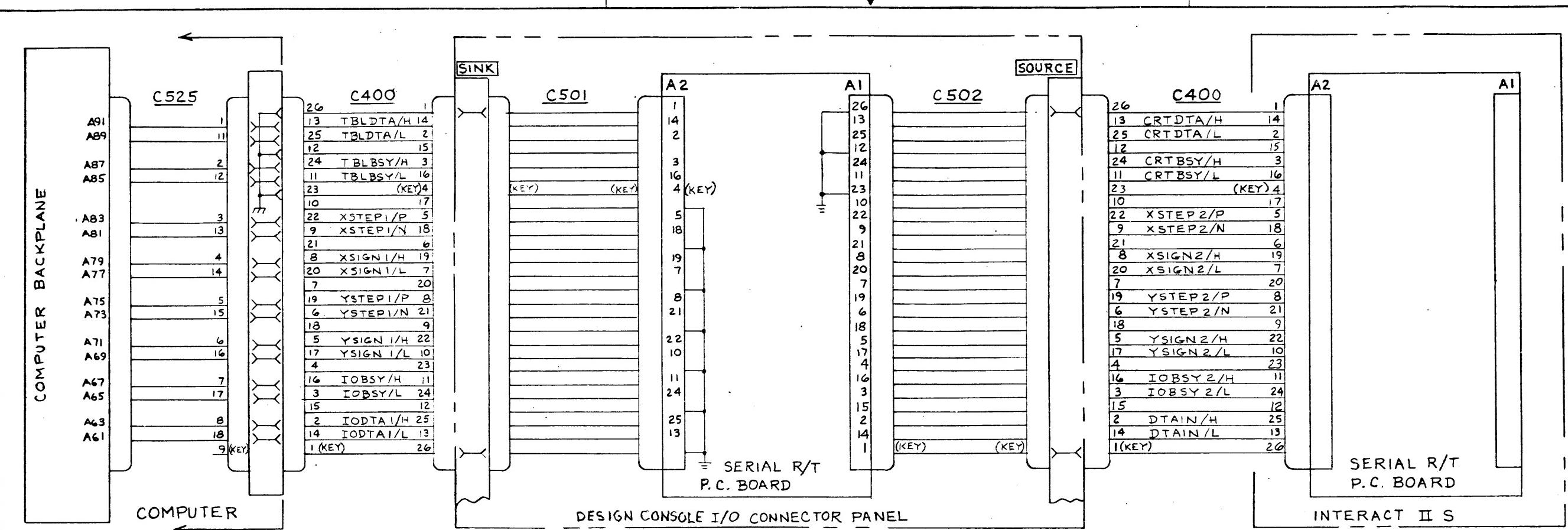
SIDE VIEW - NOVA COMPUTER



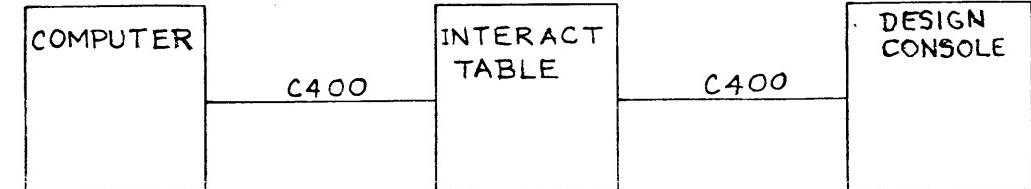
P50 TO BACKPLANE

INTERCONNECTION ORDER
INTERACTIVE CONTROLLER
INTERACT II S TABLE
DESIGN CONSOLE

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO COMPUTERTVISION CORPORATION AND IS NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION OF COMPUTERTVISION CORPORATION.		
MATERIAL:	TOLERANCES	
	DECIMAL	
PROJ.:	.XX	± .0 .0
	.XXX	± .00 .0
PART NUMBER:	FRACTIONAL	± 1/64
	ANGULAR	± 1°00'
DRAW. IP 1 C 9/23 SYM. 1 REVISION DESCRIPTION APP'DATE		
CHK SPINELLI 9/23		
ENGR L14X1020 1 TITLE SYSTEM INTERCONNECTION		
PROJ. D-11 9/23 QTY 1 IA II S & DESIGN CONSOLE		
MFG COMPUTERVISION CORP. SIGNATURE DATE SCALE NONE DWS NO. DS14E1015		
SOUTH AVENUE REMOVE ALL SURFS UNIT WT.		
BURLINGTON, MASS. 01803 REMOVE SHARP EDGES SHEET 1 OF 2 SHEETS		



BLOCK DIAGRAM - ABOVE



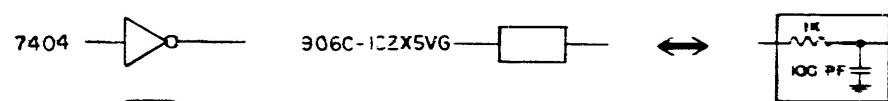
BLOCK DIAGRAM - SEE SHEET 1

INTERCONNECTION ORDER
INTERACTIVE CONTROLLER
DESIGN CONSOLE
INTERACT IIS TABLE

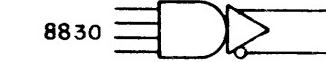
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		XX	* ± .01
		XXX	* ± .005
		XXXX	* ± .001
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PAGE 6 EDGE CONNECTOR INTERCONNECTION SYMBOLS

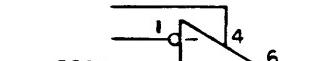
- SIGNAL GOES TO ANOTHER PAGE
- SIGNAL GOES TO ANOTHER PAGE & IS USED ON PRESENT PAGE
- SIGNAL GOES TO EDGE CONNECTOR
- XX → SIGNAL ORIGINATED ON PAGE XX
- XX → SIGNAL ORIGINATED ON PAGE XX & HAS MULTI ENTRY ON THE SAME PAGE
- A-XX → SIGNAL ORIGINATED ON EDGE CONNECTOR
- A-XY ◊ BIDIRECTIONAL BUS ON EDGE CONNECTOR



7400



7402



7408



7410



7411



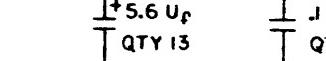
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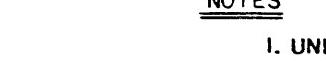
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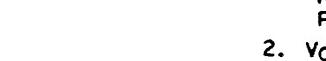
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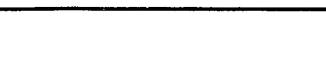
7430



74LS266



7414



NOTES

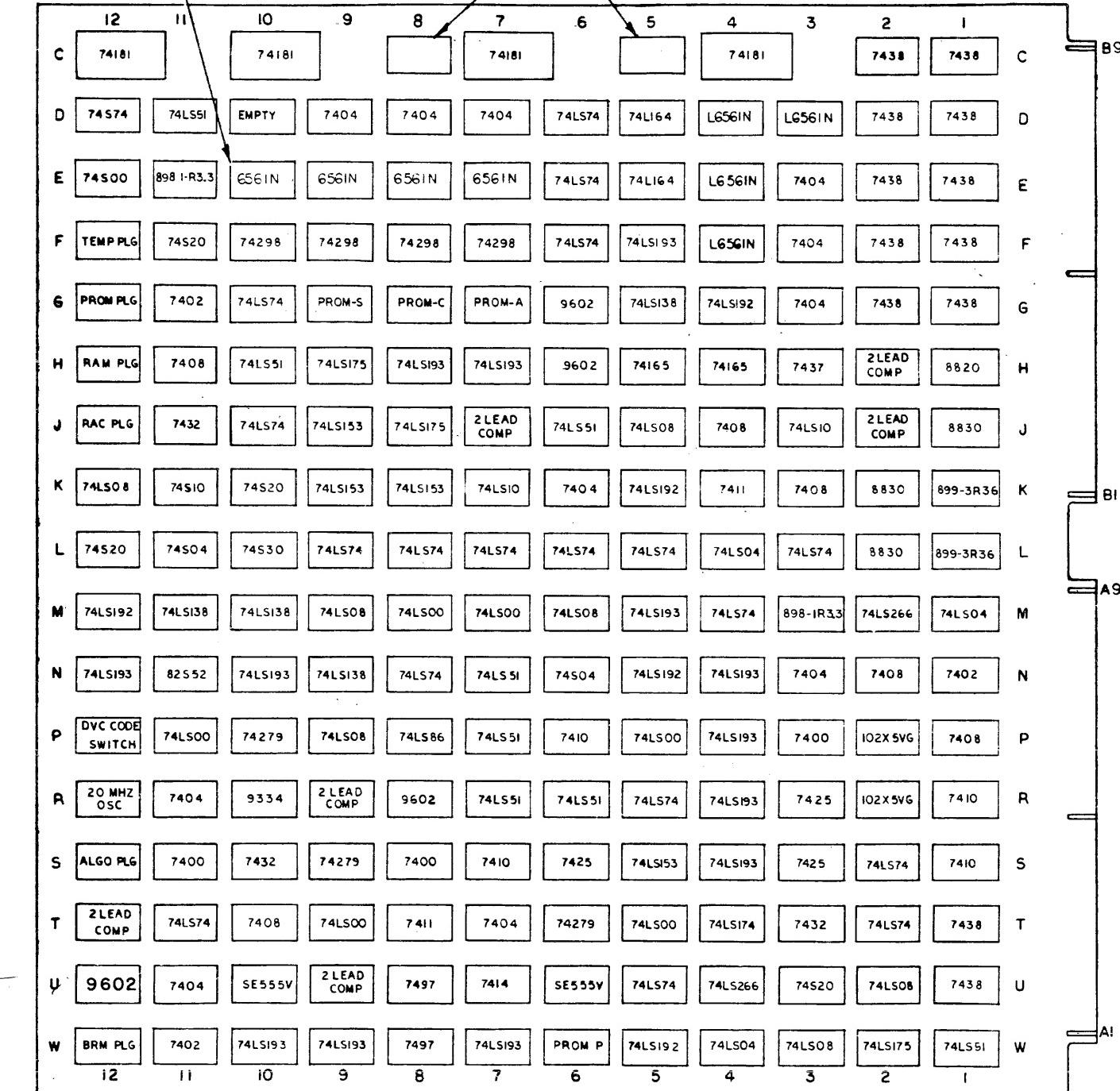
1. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE IN OHM
 $K=1000$; $M=1,000,000$; TOL. $\pm 5\%$
POWER RATING = $1/8$ WATT

2. V_{CC} (5V SUPPLY AND RTN) TO EACH IC AS FOLLOWS:
14 PIN IC. PIN 7-RTN; PIN 14-SUPPLY
16 PIN IC. PIN 8-RTN; PIN 16-SUPPLY
8 PIN IC. PIN 1-RTN; PIN 8-SUPPLY

3. SYMBOL "X" ON OUTPUT PIN INDICATES OPEN COLLECTOR.

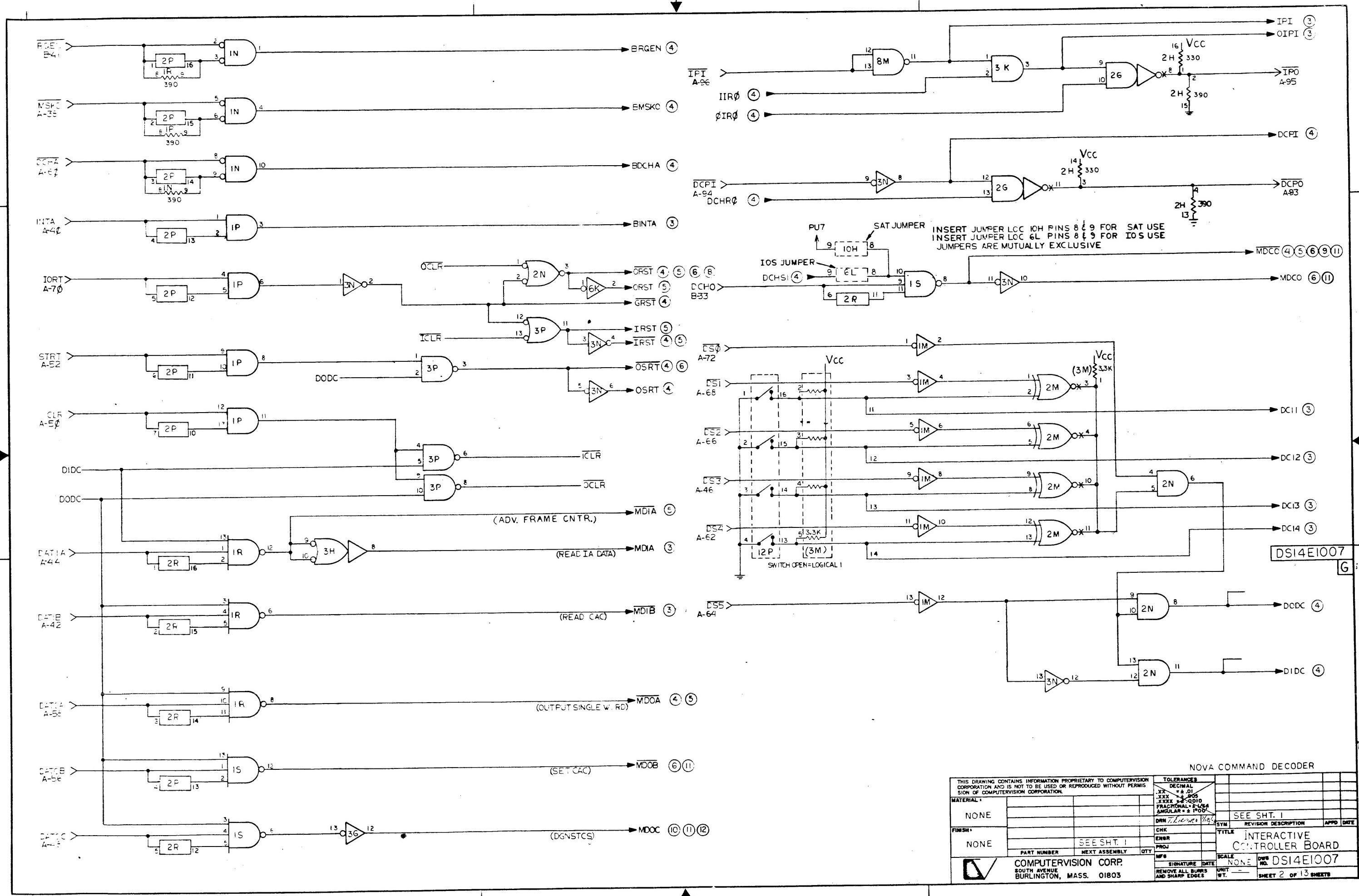
THE COMPONENT DM8599 MAY BE USED AS AN ALTERNATE IN LOCATIONS 7E, 8E, 9E & 10E.
(SEE SHEET 1)

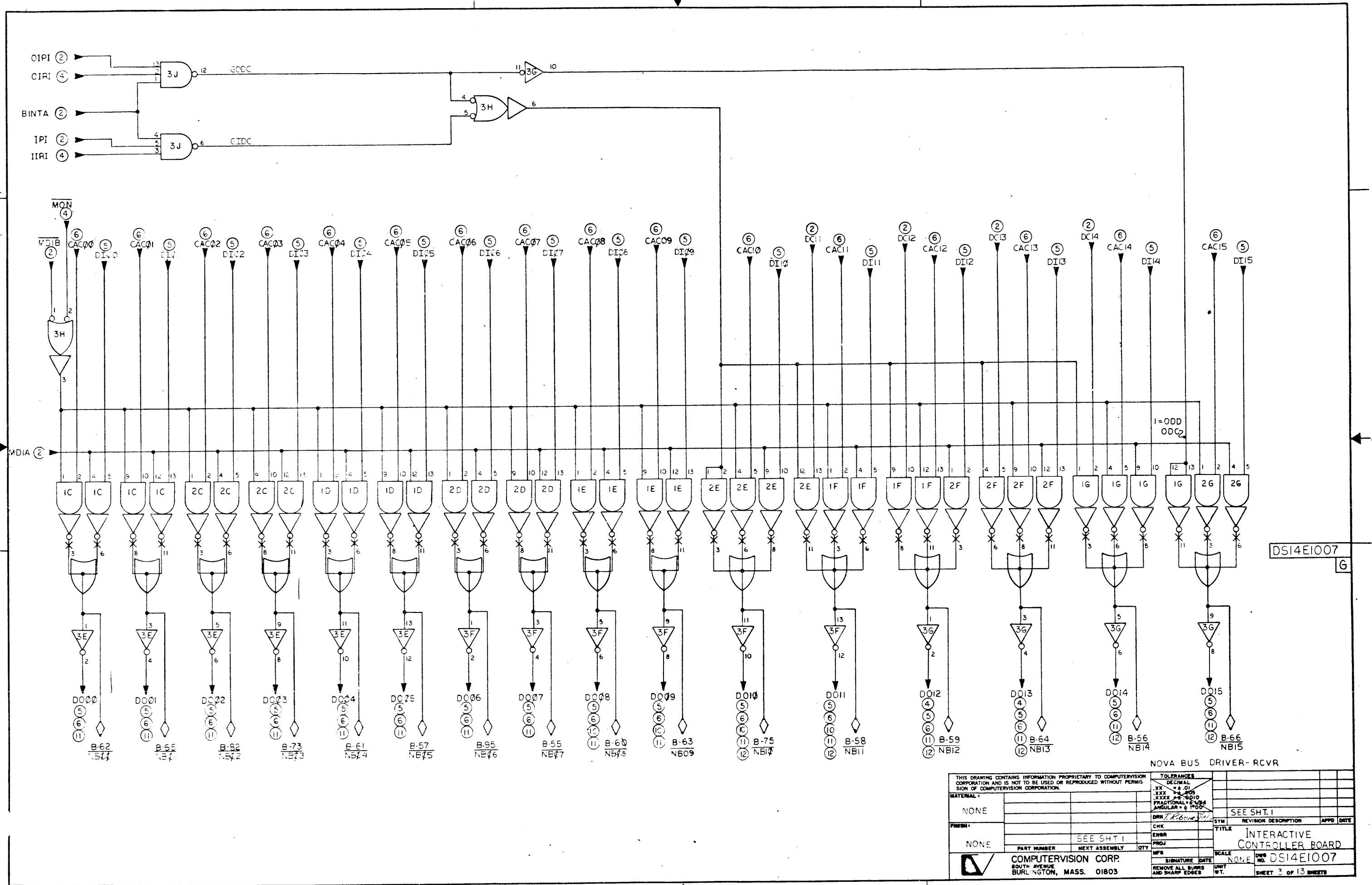
INSERT RESISTOR PAK 898-1-R3.3 ONLY WHEN THE
COMPONENT AM3101 IS USED AS AN ALTERNATE IN
LOCATIONS 3D, 4D, 4E & 4F
(SEE SHEET 5)

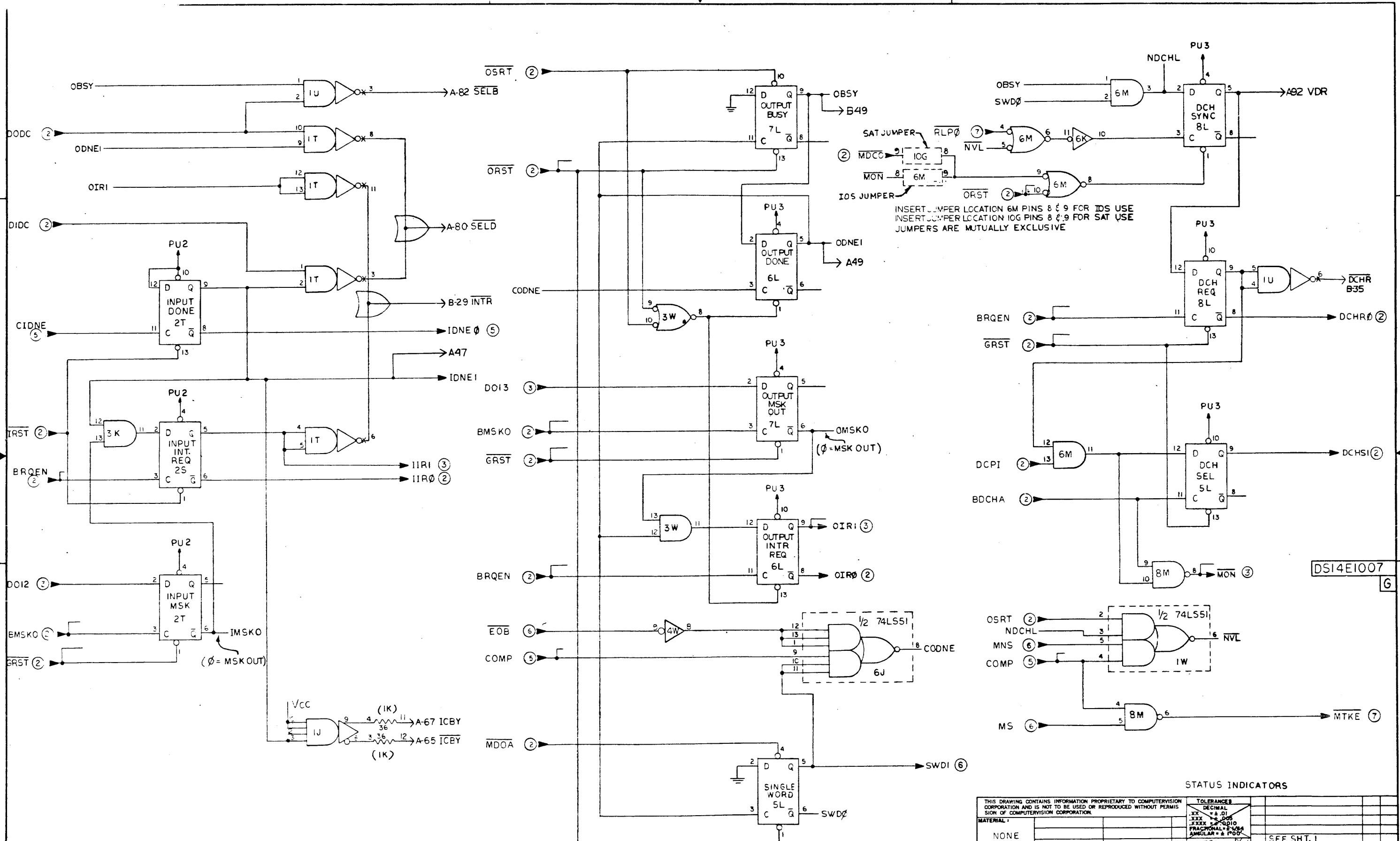


COMPONENT LAYOUT &
LOGIC SYMBOLOGY

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO COMPUTERTVISION CORPORATION AND IS NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION OF COMPUTERTVISION CORPORATION.	
TOLERANCES	G ECO#2905
DECIMAL	F ECO#2846
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XXX $\pm .005$	C ECO#1406
XXXX $\pm .001$	B ECO#1345
FRACTIONAL $\pm 1/16$	A REL ECO#1328
ANULAR $\pm 1/16$	
FR. 1/16	
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REMOVED ALL BURRS AND SHARP EDGES	
UNIT WT.	
SHEET 1 OF 12 SHEETS	

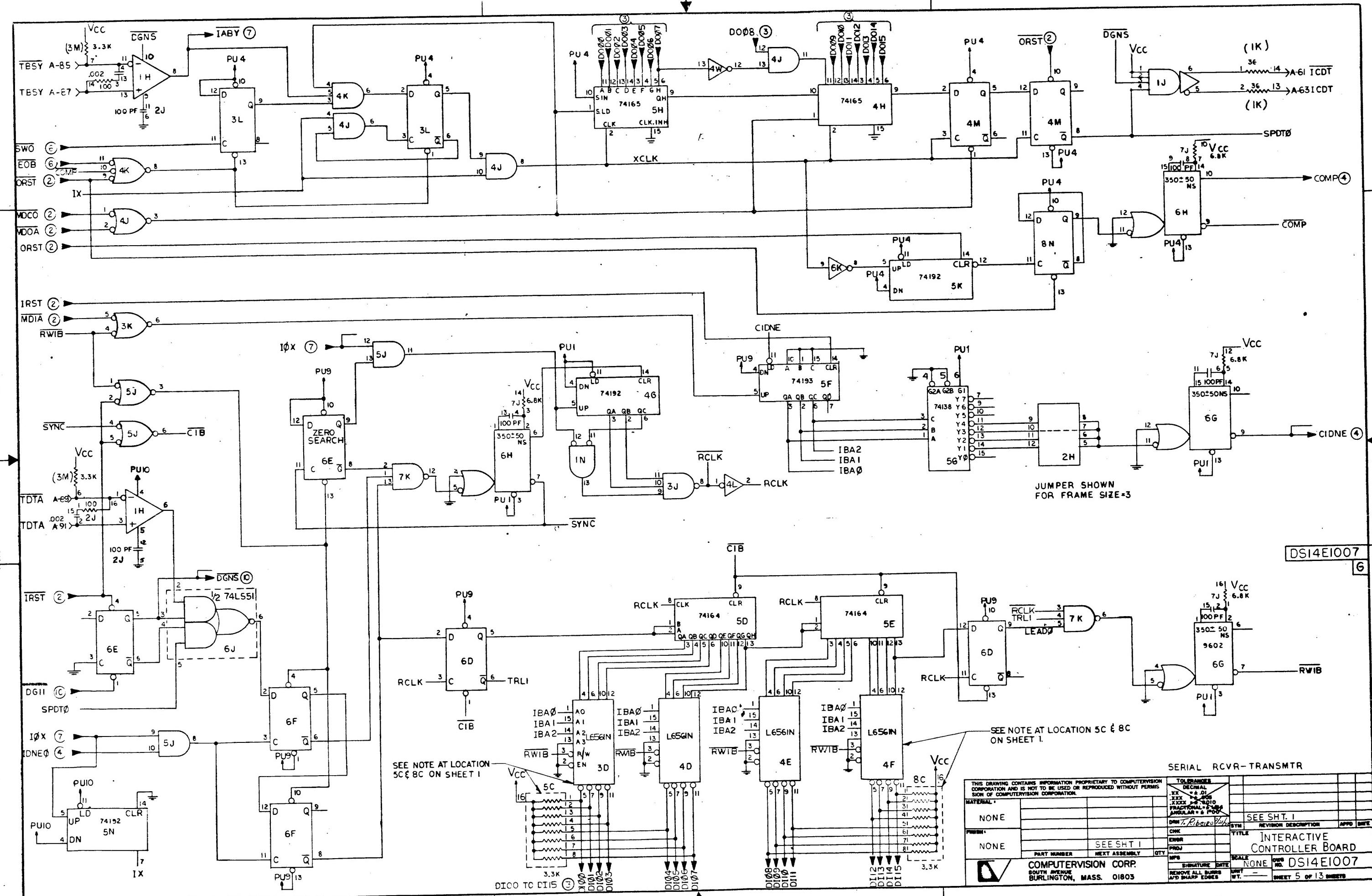


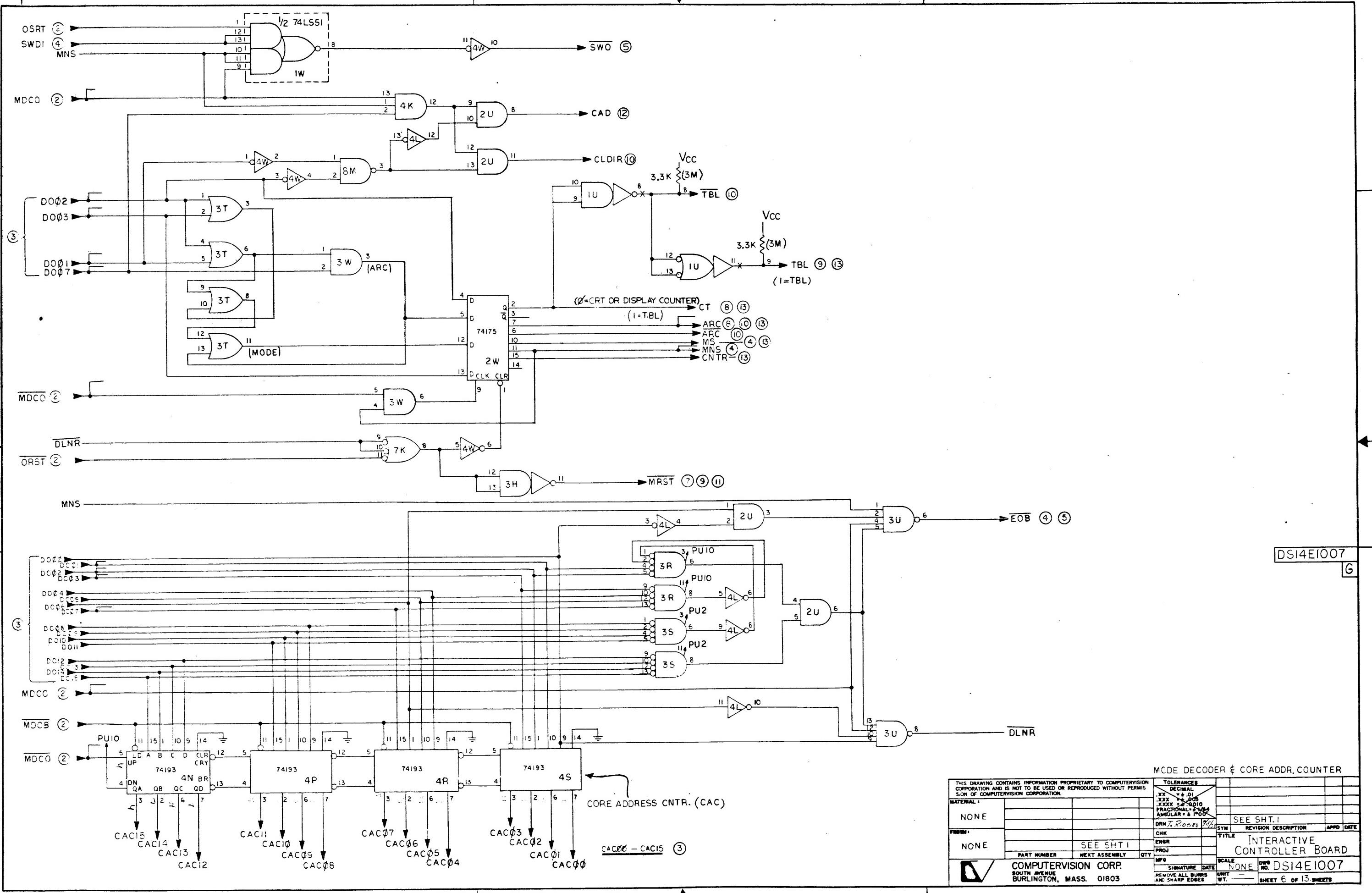


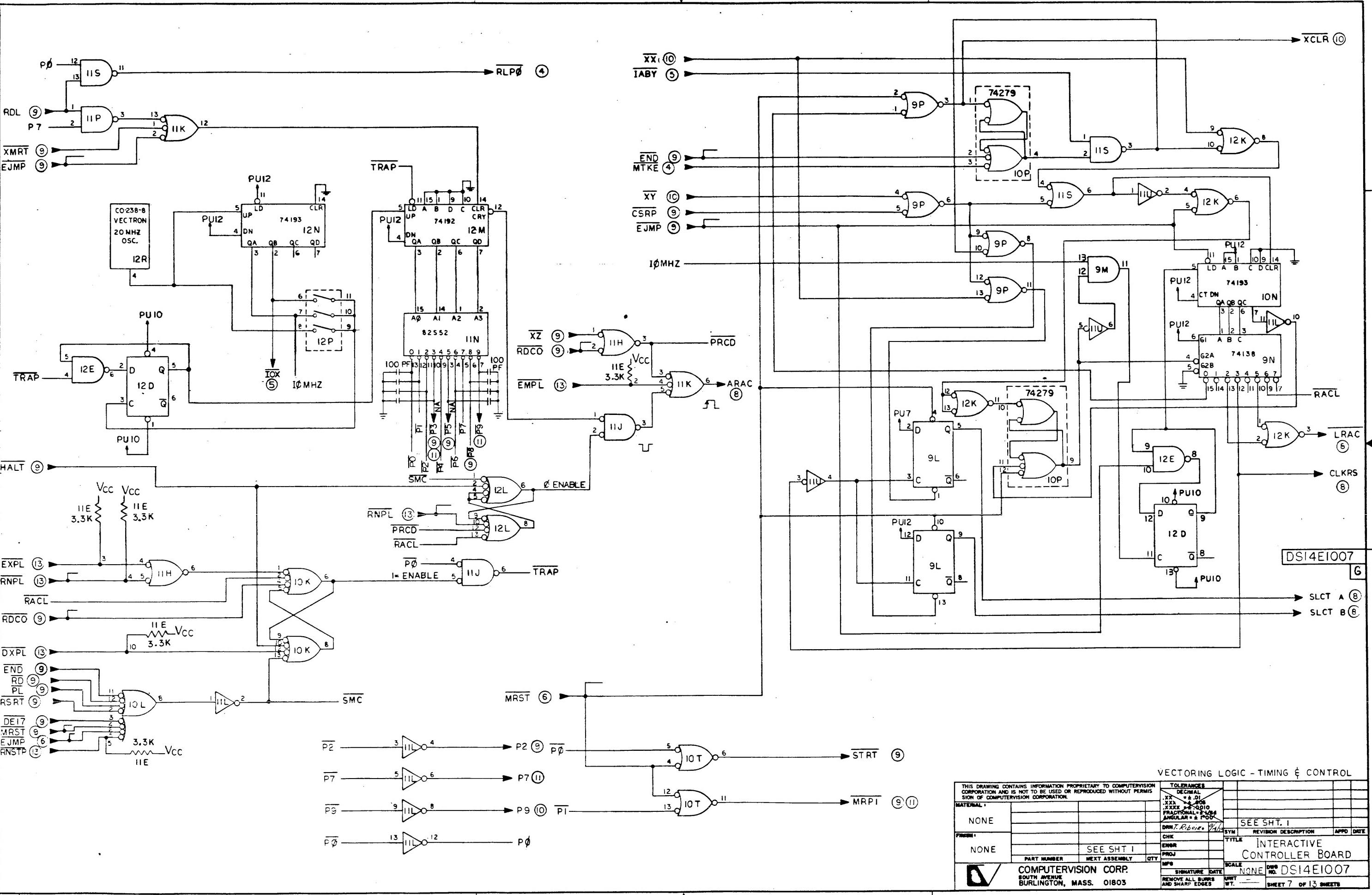


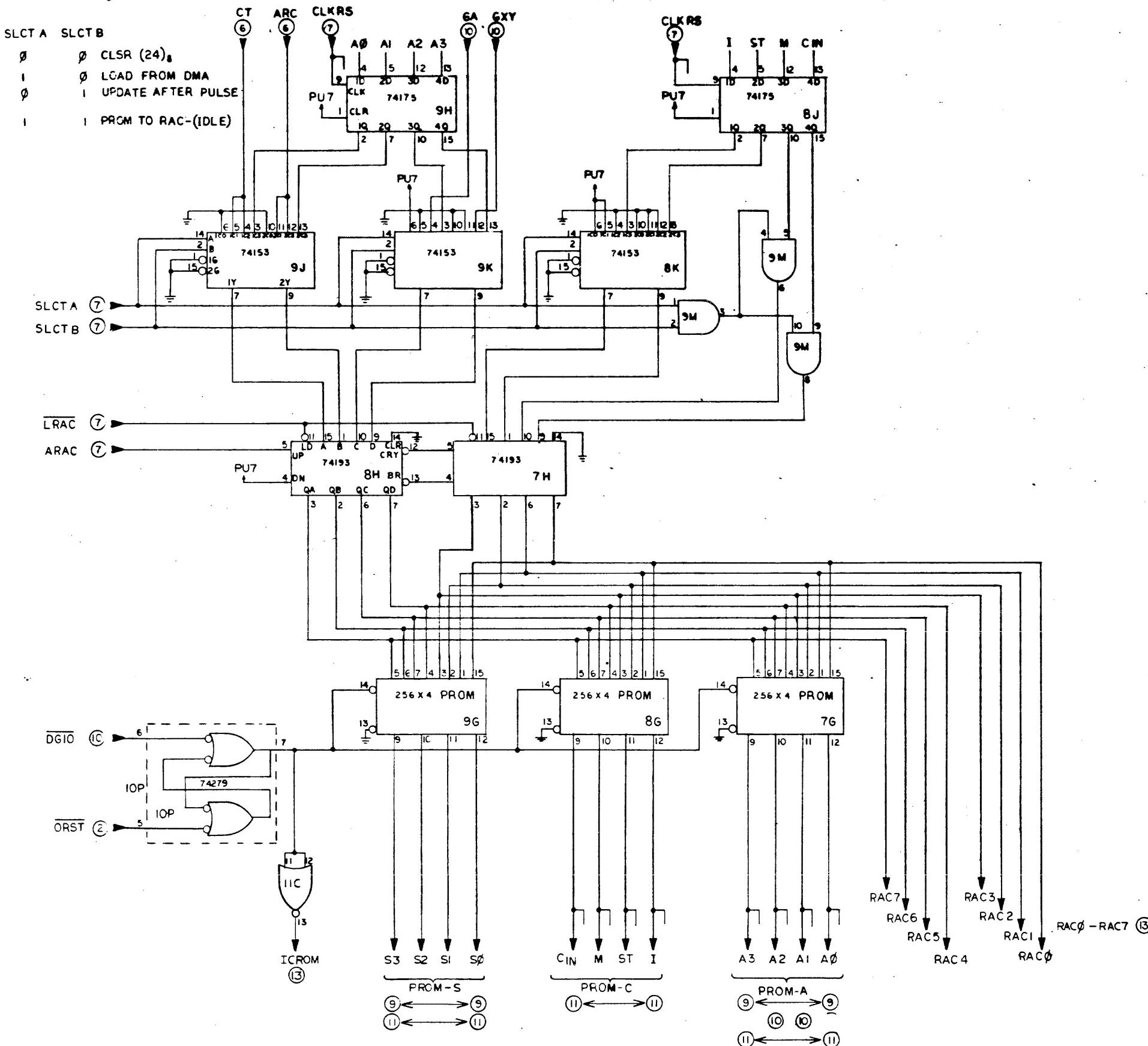
STATUS INDICATORS

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO COMPUTERVISION CORPORATION AND IS NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION OF COMPUTERVISION CORPORATION.			
TOLERANCES			
DECIMAL .XX ± .01 XXX ± .005 XXXX ± .0010 FRACTIONAL ± .004 ANGULAR ± 1° 00'			
MATERIAL : NONE			
FINISH : NONE			
SHT SHT 1			
PART NUMBER	NEXT ASSEMBLY	QTY	
 COMPUTERVISION CORP. SOUTH AVENUE BURLINGTON, MASS. 01803			
SYM <i>DRAW T.R. BECKS P161</i> REVISION DESCRIPTION APPD DATE CHK TITLE INTERACTIVE ENGR CONTROLLER BOARD PROJ MFG SCALE NONE DWS NO. DS14E1007 SIGNATURE DATE REMOVE ALL BURRS AND SHARP EDGES UNIT WT. SHEET 4 OF 13 SHEETS			



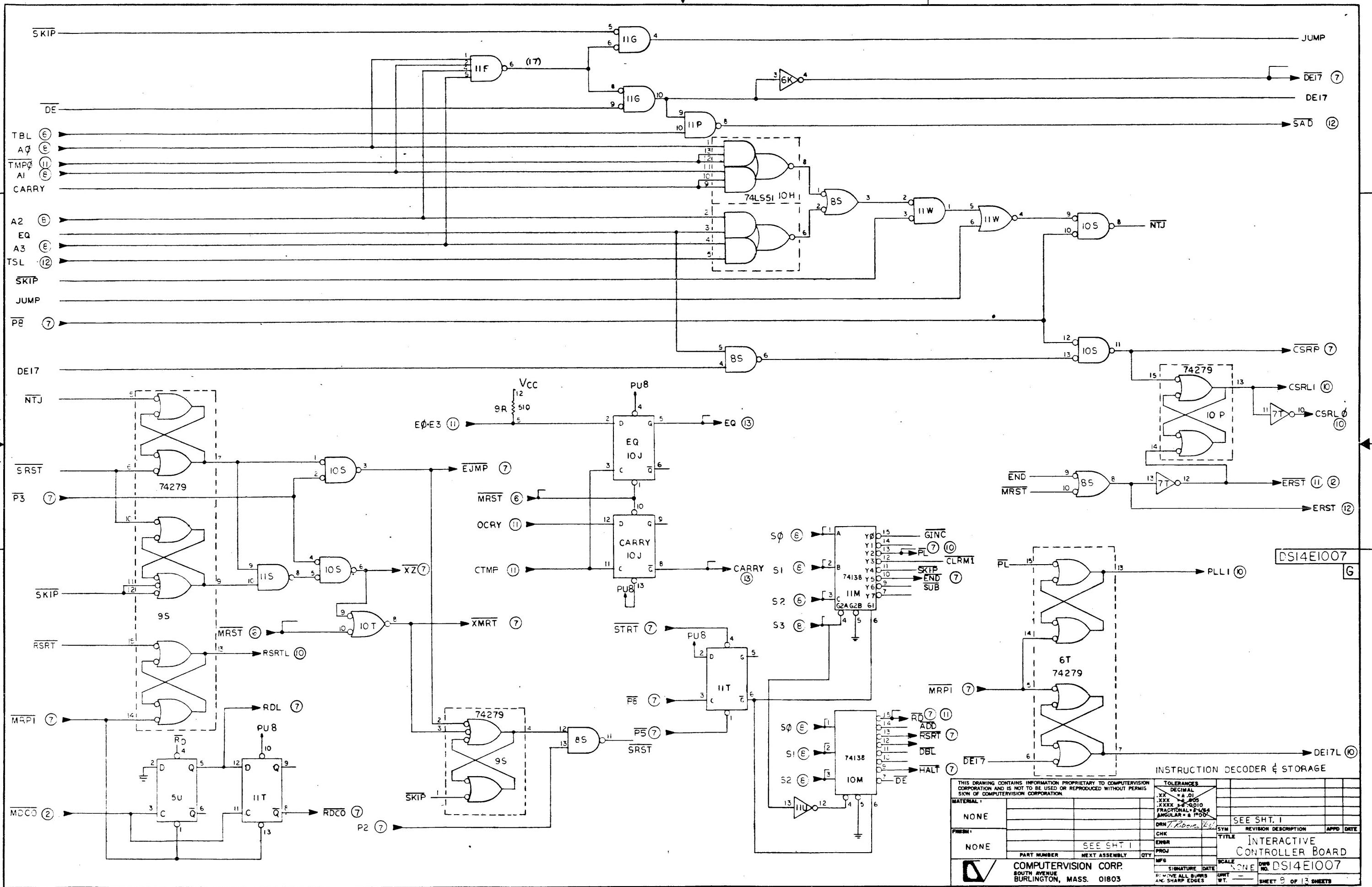


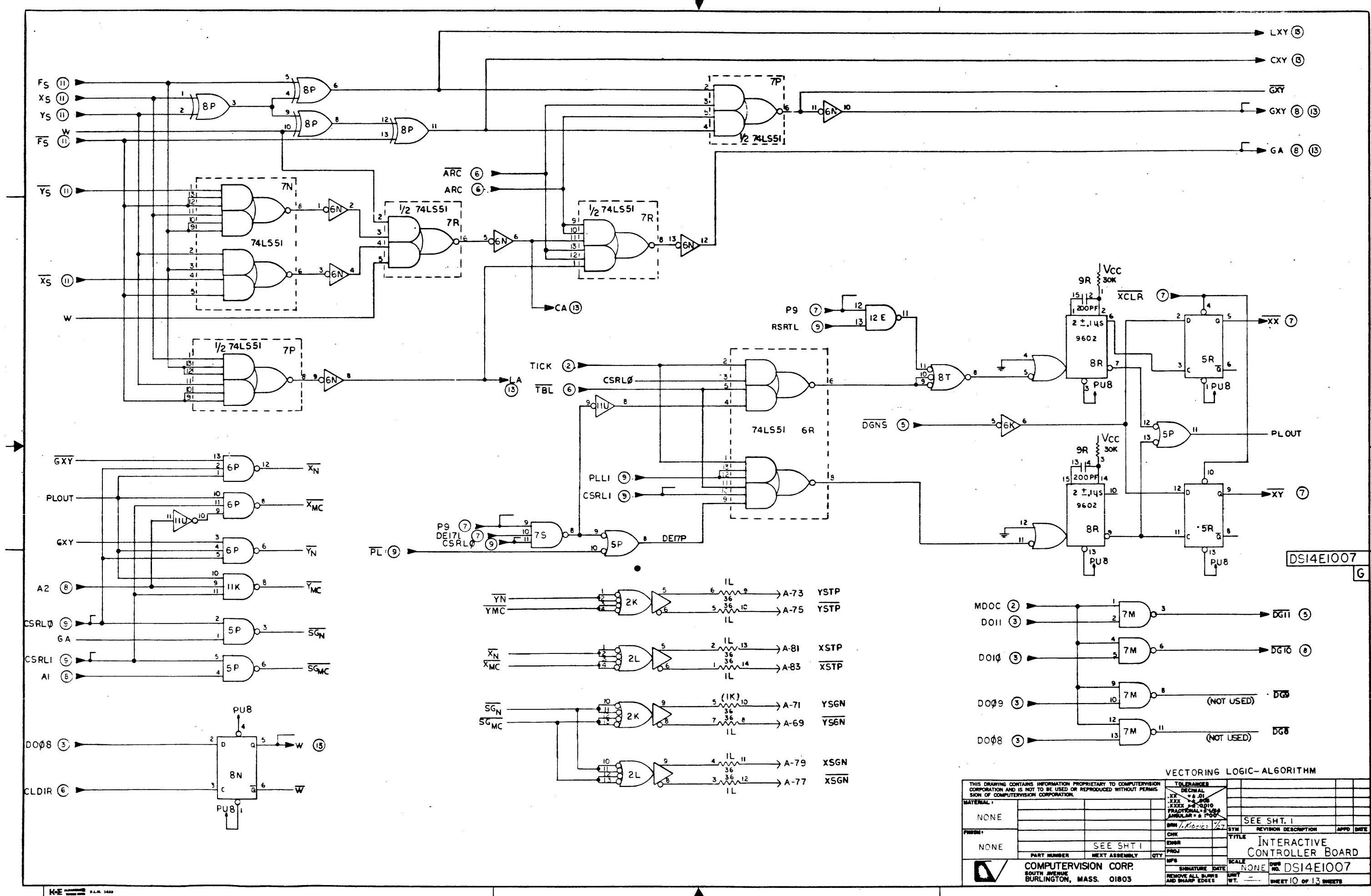


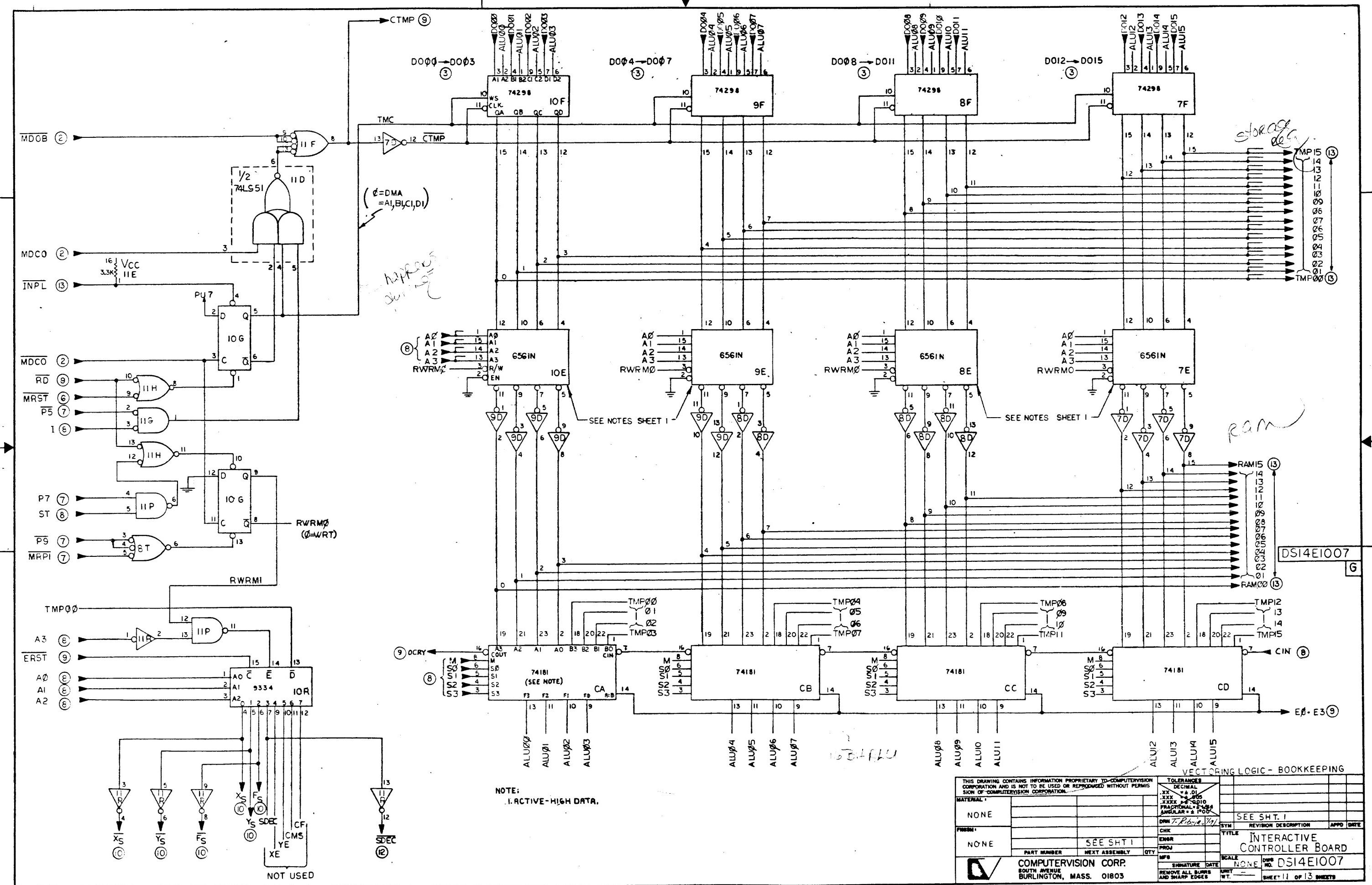


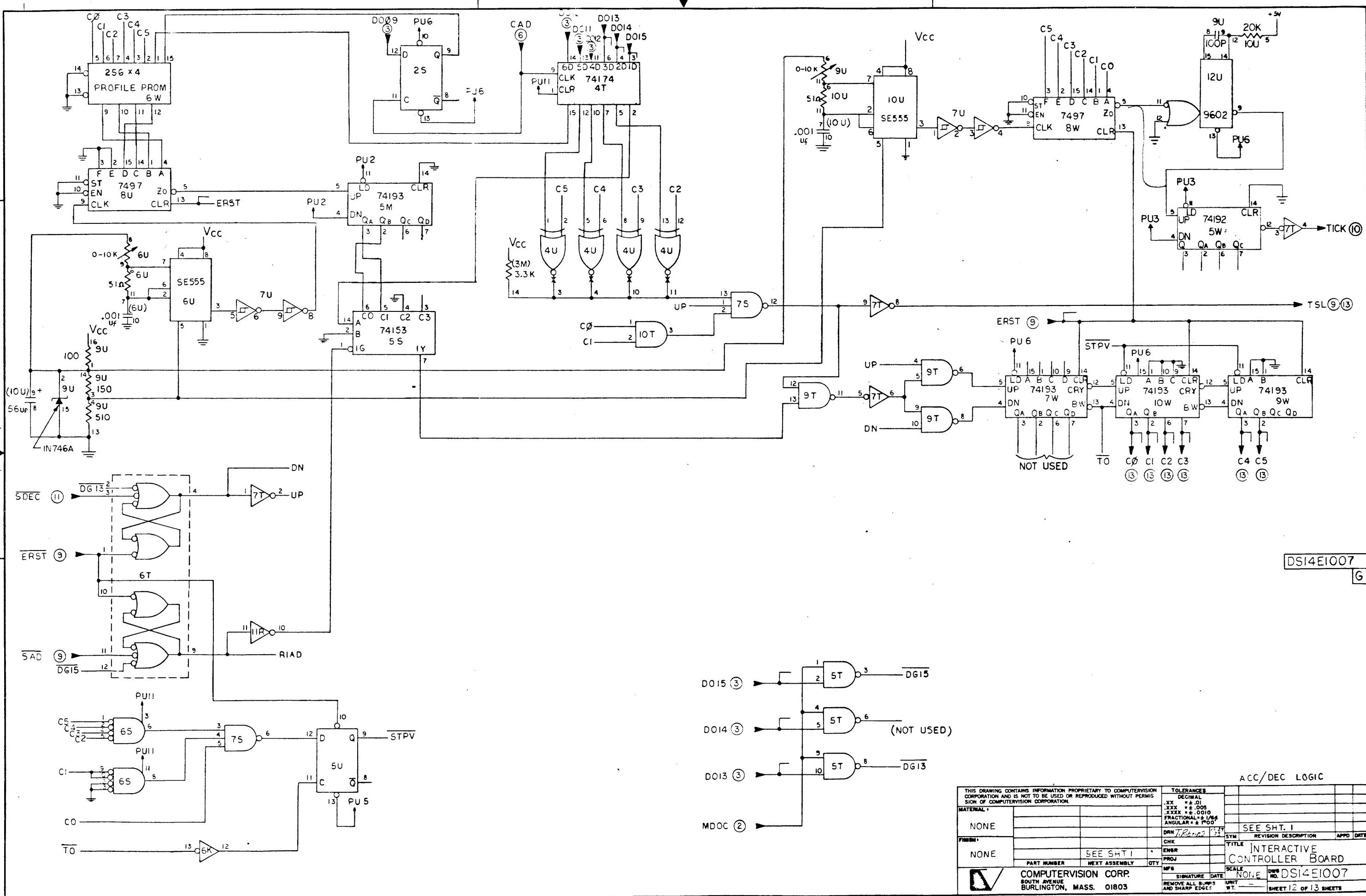
THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO COMPUTERVISION CORPORATION AND IS NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION OF COMPUTERVISION CORPORATION.

TOLERANCES		SEE SHT. I	
DECIMAL			
XX .XX ± .XX			
XX.XX .XX ± .XX			
FRACTIONAL ± .XX			
ANGULAR ± 1°00'			
DRAWN BY: J. H. L.		SYM: REVISION DESCRIPTION APP'D DATE	
CHK:			
ENR:			
PROJ:			
PART NUMBER: DS14E1007		NEXT ASSEMBLY: 001	QTY: 1
MATERIAL: NONE			
FINISH: NONE			
SEE SHT. I			
TITLE: INTERACTIVE CONTROLLER BOARD			
COMPUTERVISION CORP.			
SOUTH AVENUE			
BURLINGTON, MASS. 01803			
SIGNATURE DATE: NONE		DRAW. NO. DS14E1007	
REMOVE ALL BURRS AND SHARP EDGES		UNIT: -	
SCALE: NONE		SHEET: 8 OF 13 SHEETS	









NOVA WIRING
PIN LIST
CONN. A

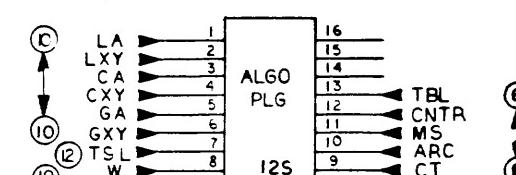
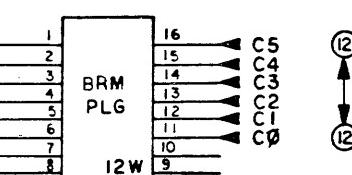
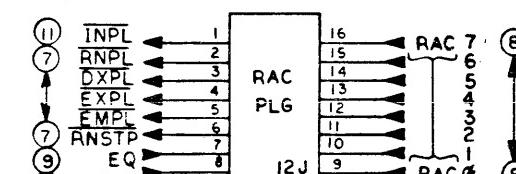
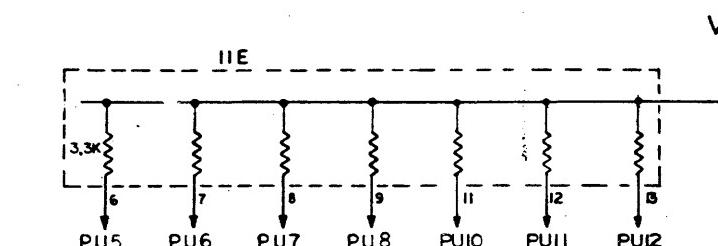
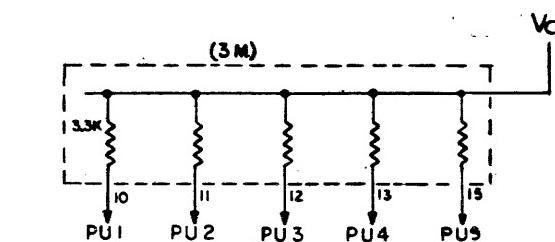
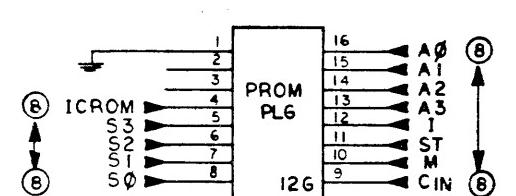
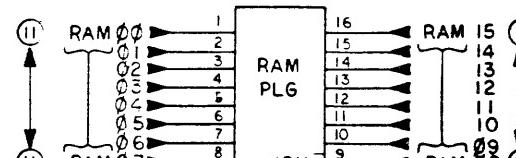
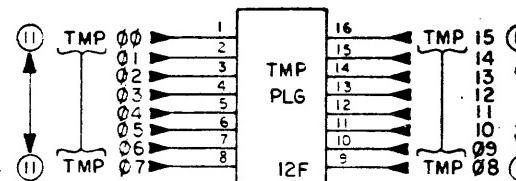
A1	AA1	GRD	A2	AB1	GRD
A3	AA2	+5V	A4	AB2	+5V
A5	AA3		A6	AB3	-5V
A7	AA4		A8	AB4	
A9	AA5		A10	AB5	+VINH
A11	AA6		A12	AB6	
A13	AA7		A14	AB7	
A15	AA8		A16	AB8	
A17	AA9		A18	AB9	
A19	AA10		A20	AB10	
A21	AA11		A22	AB11	
A23	AA12		A24	AB12	
A25	AA13		A26	AB13	
A27	AA14		A28	AB14	
A29	AA15		A30	AB15	
A31	AA16		A32	AB16	
A33	AA17		A34	AB17	GRD
A35	AA18		A36	AB18	
A37	AA19		A38	AB19	MSKO
A39	AA20		A40	AB20	INTA
A41	AA21		A42	AB21	DATIB
A43	AA22		A44	AB22	DATIA
A45	AA23		A46	AB23	S3
A47	AA24	CNEI	A48	AB24	DATOC
A48	AA25	CNEI	A49	AB25	CLR
A51	AA26		A52	AB26	STRT
A53	AA27		A54	AB27	DATIC
A55	AA28		A56	AB28	DATOB
A57	AA29		A58	AB29	DATOA
A59	AA30		A60	AB30	DYHA
A61	AA31	ICST	A62	AB31	DS4
A63	AA32	ICST	A64	AB32	DS4
A65	AA33	TCY	A66	AB33	DS2
A67	AA34	TCY	A68	AB34	DS1
A69	AA35	TCY	A70	AB35	IORST
A71	AA36	YSEN	A72	AB36	DS2
A73	AA37	YSTP	A74	AB37	IOPLS
A75	AA38	YSTP	A76	AB38	
A77	AA39	XSCN	A78	AB39	
A79	AA40	XSCN	A80	AB40	SEL0
A81	AA41	XSTB	A82	AB41	SEL1
A83	AA42	YSTP	A84	AB42	
A85	AA43	TESY	A86	AB43	
A87	AA44	TESY	A88	AB44	
A89	AA45	TDTA	A90	AB45	
A91	AA46	TDTA	A92	AB46	VDR
A93	AA47	DC-B-OUT	A94	AB47	DCPHIN
A95	AA48	INTB	A96	AB48	INTB-IN
A97	AA49	+5V	A98	AB49	+5V
A99	AA50	GND	A100	AB50	GRD

SEE NOTE 1

SEE NOTE 2

CONN. B

B1	BA1	GND	B2	BB1	GRD
B3	BA2	+5V	B4	BB2	+5V
B5	BA3		B6	BB3	
B7	BA4		B8	BB4	
B9	BA5		B10	BB5	
B11	BA6		B12	BB6	
B13	BA7		B14	BB7	
B15	BA8		B16	BB8	
B17	BA9		B18	BB9	
B19	BA10		B20	BB10	
B21	BA11	DCHM1	B22	BB11	
E23	BA12		B24	BB12	
E5	BA13		B26	BB13	
B27	BA14		B28	BB14	
B29	BA15	INTR	B30	BB15	
B31	BA16		B32	BB16	
B33	BA17	DCHO	B34	BB17	
E35	BA18	DCH-R	B36	BB18	
B37	BA19	DCH1	B38	BB19	
B39	BA20	CVFLD	B40	BB20	
B41	BA21	FREE-E	B42	BB21	
B43	BA22		B44	BB22	
B45	BA23		B46	BB23	+VINH
B47	BA24		B48	BB24	
B49	BA25	OBSY	B50	BB25	GRD
E51	BA26		B52	BB26	
E53	BA27		B54	BB27	
B55	BA28	DATA7	B56	BB28	DATA14
B57	BA29	DATA8	B58	BB29	DATA11
P59	BA30	DATA3	B60	BB30	DATA8
E61	BA31	DATA1	B62	BB31	DATA2
E62	BA32	DATA2	B64	BB32	DATA13
E63	BA33	DATA3	B65	BB33	DATA15
E65	BA34		B66	BB34	
E67	BA35		B68	BB35	
F69	BA36		B70	BB36	
E71	BA37		B72	BB37	
E73	BA38	DATA3	B74	BB38	
E75	BA39	DATA10	B76	BB39	
E77	BA40		B78	BB40	
E79	BA41	-5V	B80	BB41	DATA2
E81	BA42		B82	BB42	+VINH
E83	BA43		B84	BB43	
E85	BA44		B86	BB44	
E87	BA45		B88	BB45	
E89	BA46		B90	BB46	
E93	BA47		E94	BB47	
E95	BA48		E96	BB48	
E97	BA49	+5V	E98	BB49	+5V
B99	BA50	GRD	B100	BB50	GRD



- NOTE:
1. CROSSHATCHED POSITIONS INDICATE MEMORY SIGNALS.
2. CONNECT C525 CABLE TO THESE PINS.

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO COMPUTERTVISION CORPORATION AND IS NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION OF COMPUTERTVISION CORPORATION.		TOLERANCES	
MATERIAL 1		DECRIMAL	
NONE		.XX .# .01	
		.XXX .# .001	
		.XXXX .# .0001	
		ANGULAR & POOL	
		DRAW T.R. 100%	
PINS 1		SEE SHT 1	
NONE		CHK	
		ENBR	
		PROJ	
PART NUMBER		NEXT ASSEMBLY	QTY
COMPUTERTVISION CORP.			
SOUTH AVENUE			
BURLINGTON, MASS. 01803			
SIGNATURE DATE			
REMOVED ALL BURRS AND SHARP EDGES			
WGT WT.			
None		None	None
DS14E1007			
G			
INTERACTIVE			
CONTROLLER BOARD			
Sheet 13 of 13 Sheets			

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO COMPUTERVISION CORPORATION AND IS NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION OF COMPUTERVISION CORPORATION.

INTERACTIVE CONTROLLER BD.
COMPUTERIZED ALPHA SIGNAL
NAME LIST.

NAME LIST.

DO NOT MANUFACTURE BY THIS DOCUMENT

A REL ECO 4 | 273

SYM	REVISION DESCRIPTION
-----	----------------------

L14X1031	1	DRN H. B. 7/1 7/3
L14X1020	1	CHK
		ENGR H. B. 9/23
		PROJ 2B 9/23
		MFG
PAGE NUMBER		SIGNATURE
PRINT LEGIBLY		DATE
SHEET # 15 SHEETS		

F67IRSIIIA

COMPUTERVISION CORP.
SOUTH AVENUE
BURLINGTON, MASS. 01803

0001 . MAIN
 01 / INTERACTIVE CONTROLLER BD.
 02 / ALPHA SIGNAL NAMES
 03 / AW14E 1012 REV A
 04
 05 00000 000002 G0DC: 2. / GEN. OUTPUT DEVICE CODE.
 06 00001 000003 G1DC: 3. / GEN. INPUT DEVICE CODE.
 07 00002 000005 NB15: 5. / NOVA BUS BIT 15
 08 00003 000006 NB14: 6. / NOVA BUS BIT 14
 09 00004 000007 NB13: 7. / NOVA BUS BIT 13
 10 00005 000010 NB12: 8. / NOVA BUS BIT 12
 11 00006 000011 NB11: 9. / NOVA BUS BIT 11
 12 00007 000012 NB10: 10. / NOVA BUS BIT 10
 13 00010 000013 NB09: 11. / NOVA BUS BIT 09
 14 00011 000014 NB08: 12. / NOVA BUS BIT 08
 15 00012 000015 NB07: 13. / NOVA BUS BIT 07
 16 00013 000016 NB06: 14. / NOVA BUS BIT 06
 17 00014 000017 NB05: 15. / NOVA BUS BIT 05
 18 00015 000020 NB04: 16. / NOVA BUS BIT 04
 19 00016 000021 NB03: 17. / NOVA BUS BIT 03
 20 00017 000022 NB02: 18. / NOVA BUS BIT 02
 21 00020 000023 NB01: 19. / NOVA BUS BIT 01
 22 00021 000024 NB00: 20. / NOVA BUS BIT 00
 23 00022 000025 OIFI: 21. / OUTPUT INTERRUPT PRIORITY IN.
 24 00023 000026 BINTA: 22. / BUFFERED INTERRUPT ACKNOWLEDGE (INTA)
 25 00024 000027 OIR1: 23. / OUTPUT INTERRUPT REQUEST (1).
 26 00025 000030 IPI: 24. / INPUT INTERRUPT PRIORITY IN.
 27 00026 000031 IIR1: 25. / INPUT INTERRUPT REQUEST (1).
 28 00027 000032 MDIB: 26. / MY DATA IN B. PUTS CORE ADDRESS COUNTER ON
 29 / THE BUS.
 30 00030 000033 MON: 27. / MEMORY ON. PUTS CORE ADDRESS COUNTER ON
 31 / THE BUS DURING DMA OP.
 32 00031 000034 MDIA: 28. / MY DATA IN A. PUTS INTERACT DATA ON THE BUS.
 33 00032 000035 DO00: 29. / DATA OUT. RCVD DATA FROM CPU. BUFFERED AND
 34 / INVERTED.
 35 00033 000036 DO01: 30.
 36 00034 000037 DO02: 31.
 37 00035 000040 DO03: 32.
 38 00036 000041 DO04: 33.
 39 00037 000042 DO05: 34.
 40 00040 000043 DO06: 35.
 41 00041 000044 DO07: 36.
 42 00042 000045 DO08: 37.
 43 00043 000046 DO09: 38.
 44 00044 000047 DO10: 39.
 45 00045 000050 DO11: 40.
 46 00046 000051 DO12: 41.
 47 00047 000052 DO13: 42.
 48 00050 000053 DO14: 43.
 49 00051 000054 DO15: 44. / DATA OUT.
 50 00052 000055 DC11: 45. / DEVICE CODE.
 51 00053 000056 DC12: 46.
 52 00054 000057 DC13: 47.
 53 00055 000060 DC14: 48.
 54 00056 000061 CAC00: 49. / CORE ADDRESS COUNTER. (CAC) MEB.
 55 00057 000062 CAC01: 50.
 56 00060 000063 CAC02: 51.
 57 00061 000064 CAC03: 52.
 58 00062 000065 CAC04: 53.
 59 00063 000066 CAC05: 54.

0002	MAIN	
01	00064 000067 CAC06:	55.
02	00065 000070 CAC07:	56.
03	00066 000071 CAC08:	57.
04	00067 000072 CAC09:	58.
05	00070 000073 CAC10:	59.
06	00071 000074 CAC11:	60.
07	00072 000075 CAC12:	61.
08	00073 000076 CAC13:	62.
09	00074 000077 CAC14:	63.
10	00075 000109 CAC15:	64. / CORE ADDRESS COUNTER. LSB.
11	00076 000101 DI00:	65. / DATA IN. RCV'D INTERACT DATA. MSB.
12	00077 000102 DI01:	66.
13	00100 000103 DI02:	67.
14	00101 000104 DI03:	68.
15	00102 000105 DI04:	69.
16	00103 000106 DI05:	70.
17	00104 000107 DI06:	71.
18	00105 000110 DI07:	72.
19	00106 000111 DI08:	73.
20	00107 000112 DI09:	74.
21	00110 000113 DI10:	75.
22	00111 000114 DI11:	76.
23	00112 000115 DI12:	77.
24	00113 000116 DI13:	78.
25	00114 000117 DI14:	79.
26	00115 000120 DI15:	80. / DATA IN. LSB.
27	00116 000121 ROEN:	81. / REQUEST ENABLE. CPU GENERATED SIGNAL. (ROENB)
28	00117 000123 MSKO:	83. / MASK OUT. CPU GENERATED SIGNAL.
29	00120 000125 DCRA:	85. / DATA CHANNEL ACKNOWLEDGE. CPU GENERATED
30		, SIGNAL.
31	00121 000127 INTRX:	87. / INTERRUPT ACKNOWLEDGE. CPU GENERATED
32		, SIGNAL. (INTA)
33	00122 000131 IORT:	89. / I/O RST. CPU GENERATED SIGNAL.
34	00123 000133 STRT:	91. / START. CPU GENERATED SIGNAL.
35	00124 000135 CLR:	93. / CLEAR. CPU GENERATED SIGNAL.
36	00125 000137 DATIA:	95. / DATA INPUT A. CPU GENERATED SIGNAL. USED FOR
37		, READING DATA.
38	00126 000141 DATIB:	97. / DATA INPUT B. CPU GENERATED SIGNAL. USED FOR
39		, READING CAC.
40	00127 000143 DATOA:	99. / DATA OUTPUT A. CPU GENERATED SIGNAL. USED FOR
41		, SINGLE CHARACTER OUTPUT.
42	00130 000145 DATOB:	101. / DATA OUTPUT B. CPU GENERATED SIGNAL. USED FOR
43		, SETTING CAC.
44	00131 000147 DATOC:	103. / DATA OUTPUT C. CPU GENERATED SIGNAL. USED FOR
45		, DIAG.
46	00132 000151 IPI:	105. / INTERRUPT PRIORITY IN. CPU GENERATED SIGNAL.
47	00133 000152 DCPI:	106. / DATA CHANNEL PRIORITY IN. CPU GENERATED
48		, SIGNAL.
49	00134 000153 DCIO:	107. / DATA CHANNEL OUT. CPU GENERATED SIGNAL.
50	00135 000155 DS0:	109. / DEVICE SELECT. CPU GENERATED SIGNAL. MSB.
51	00136 000156 DS1:	110.
52	00137 000157 DS2:	111.
53	00140 000160 DS3:	112.
54	00141 000161 DS4:	113.
55	00142 000162 DS5:	114. / DEVICE SELECT. LSB.
56	00143 000163 IPO:	115. / INTERRUPT PRIORITY OUT.
57	00144 000164 DCPO:	116. / DATA CHANNEL PRIORITY OUT.
58	00145 000202 BROEN:	120. / BUFFERED REQ. ENABLE.
59	00146 000203 BMSKO:	121. / BUFFERED MSKO.

00003	MAIN	
01	00147 000204 BDCHA.	132
	00150 000205 GRST.	133
	00151 000206 GRST.	134
34	00152 000207 IRST.	135
05	00153 000210 IRST.	136
06	00154 000211 OSRT.	137
07	00155 000212 OSRT.	138
08	00156 000213 ICLR.	139
09	00157 000214 OCLR.	140
10	00160 000215 MDIA.	141
11	00161 000216 MDIA.	142
12	00162 000217 MDIB.	143
13	00163 000220 MDIC.	144
14	00164 000221 IIRO.	145
15	00165 000222 OIRO.	146
16	00166 000223 DCHR0.	147
17	00167 000224 DCHS1.	148
18	00170 000225 DCPI.	149
19		
20	00171 000226 MDIO.	150
21	00172 000227 MDIO.	151
22	00173 000230 DIDC.	152
23	00174 000231 DODC.	153
24	00175 000232 RWIB.	155
25		
26	00176 000236 CIB.	156
27	00177 000237 SYNC.	159
28	00200 000264 RCLK.	180
29	00201 000265 RCLK.	181
30	00202 000266 TRL1.	182
31		
32	00203 000271 IBAS.	185
33	00204 000272 IBAS1.	186
34	00205 000273 IBAS2.	187
35	00206 000314 LEAD0.	204
36	00207 000315 IBW.	205
37	00210 000316 IDNE0.	206
38	00211 000317 RCDT.	207
39	00212 000320 DGNS.	208
40	00213 000321 CIDNE.	209
41	00214 000322 DGII.	210
42		
43	00215 000323 SPDTO.	211
44	00216 000324 IDNE1.	212
45	00217 000326 SEL0.	214
46	00220 000327 INTL.	215
47	00221 000330 SELB.	216
48	00222 000331 ODNE1.	217
49	00223 000332 ODSY1.	218
50	00224 000333 XN.	219
51	00225 000334 XMC.	220
52	00226 000335 SGN.	221
53	00227 000336 SGMC.	222
54	00230 000337 YN.	223
55	00231 000340 YMCI.	224
56	00232 000341 SPDT1.	225
57	00233 000342 TDTR.	226
58		
59	00234 000344 TDTR.	226

0004 . MAIN

2 00235 000345 TBSY. : 229.
 3
 4 00236 000347 TBSY. : 231.
 5
 6 00237 000350 XSTEP. : 232.
 7
 8 00240 000352 XSTEP. : 234.
 9
 10 00241 000354 YSIGN. : 236.
 11
 12 00242 000356 YSIGN. : 238.
 13
 14 00243 000360 YSTEP. : 240.
 15
 16 00244 000362 YSTEP. : 242.
 17
 18 00245 000364 YSIGN. : 244.
 19
 20 00246 000366 YSIGN. : 246.
 21
 22 00247 000370 ICDT. : 248.
 23
 24 00250 000372 ICDT. : 250.
 25
 26 00251 000374 IOBY. : 252.
 27
 28 00252 000376 IOBY. : 254.
 29
 30 00253 000402 IABY. : 258.
 31 00254 000406 I0MHZ. : 262.
 32 00255 000411 DG10. : 265.
 33 00256 000412 DG9. : 266.
 34 00257 000413 DG8. : 267.
 35 00260 000414 IX. : 268.
 36 00261 000454 MNS. : 269.
 37 00262 000455 CT. : 271.
 38 00263 000456 ARC. : 272.
 39 00264 000003 MS. : 283.
 40 00265 000460 CNTR. : 284.
 41 00266 000461 EOB. : 285.
 42 00267 000462 DLMR. : 286.
 43 00270 000463 CNTR. : 287.
 44 00271 000464 CAD. : 288.
 45 00272 000465 CLDIR. : 289.
 46 00273 000466 SWO. : 290.
 47 00274 000467 MRST. : 291.
 48
 49 00275 000470 SWD0. : 292.
 50 00276 000502 DCHR. : 292.
 51 00277 000505 COMP. : 295.
 52
 53 00300 000506 NVL. : 296.
 54 00301 000510 MTKE. : 298.
 55 00302 000005 CODNG. : 299.
 56 00303 000512 SWD1. : 300.
 57 00304 000513 OMSKO. : 301.
 58 00305 000514 WCLK. : 302.
 59 00306 000503 ORST. : 307.

/ IS TBL DATA.
 / ON INTERCONNECTION DIAG. THIS
 / SIGNAL IS TBL BSY/L.
 / TABLE BUSY ON INTERCONNECTION DIAG.
 / THIS SIGNAL IS TBL BSY/H.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS XSTEP 1/P.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS XSTEP 1/N.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS XSIGN 1/L.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS XSIGN 1/H.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS XSTEP 1/P.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS XSTEP 1/N.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS YSIGN 1/N.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS YSIGN 1/H.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS YSIGN 1/L.
 / INTERACTIVE CONTROLLER DATA (SUPERVISORY
 / CHANNEL). XX IODTA 1/L.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS IODTA 1/H.
 / ON INTERCONNECTION DIAG. THIS SIGNAL
 / IS IOBSY/L.
 / INTERACTIVE CONTROLLER BUSY. ON INTER-
 / CONNECTION DIAG. THIS SIGNAL IS IOBSY/H.
 / IA BUSY.
 / DIAGNOSTICS 10.
 / DIAGNOPTICE 9.
 / DIAGNOSTICS 8.
 / SHIFTING FREQ.
 / MODE NOT SET.
 / CRT OR TBL MODE. 1=TEL.
 / ARC MODE SET = 1.
 / MODE SET.
 / CNTR MODE SET = 1.
 / END OF BUFFER.
 / DELIMITER.
 / CLK ACC/DEC.
 / CLK DIRECTION.
 / SINGLE WORD OUT.
 / MICRO COMPUTER RST. LOGICAL "OR" OF
 / IOREST, ORST AND DLMR.
 / SINGLE WORD F/F (0).
 / COMPLETION. INDICATES THAT A WORD OVER
 / SUPERVISORY CHANNEL IS SENT OUT.
 / NON VECTORING LOGIC.
 / MC TAKE.
 / CLK OUTPUT DONE
 / SINGLE WORD (1).
 / OUTPUT MSKO OUT.
 / XMIT CLK.

0005	MAIN	
1	00007 000540 COMP.	352.
2	00010 000541 TBL.	353.
3	00011 000542 TBL.	354.
4	00012 000543 PU1:	355.
5	00013 000544 PU2:	356.
6	00014 000545 PU3:	357.
7	00015 000546 PU4:	358.
8	00016 000633 ICROM:	411.
9	00017 000700 VCC:	448.
10	00020 001035 IMSKO:	541.
11	00021 001114 C0:	568.
12	00022 001115 C1:	569.
13	00023 001116 C2:	590.
14	00024 001117 C3:	591.
15	00025 001120 C4:	592.
16	00026 001121 C5:	593.
17	00027 000547 GND:	359.
18		
19	00030 001515 CTMP:	845.
20	00031 001516 TMC:	846.
21	00032 001517 TMP00:	847.
22	00033 001520 TMP01:	848.
23		
24	00034 001521 TMP02:	849.
25	00035 001522 TMP03:	850.
26	00036 001523 TMP04:	851.
27	00037 001524 TMP05:	852.
28	00038 001525 TMP06:	853.
29	00039 001526 TMP07:	854.
30	00040 001527 TMP08:	855.
31	00041 001528 TMP09:	856.
32	00042 001529 TMP10:	857.
33	00043 001530 TMP11:	858.
34	00044 001531 TMP12:	859.
35	00045 001532 TMP13:	860.
36	00046 001533 TMP14:	861.
37	00047 001534 TMP15:	862.
38	00048 001535 TMP16:	863.
39	00049 001536 RAM00:	864.
40	00050 001537 RAM01:	865.
41	00051 001538 RAM02:	866.
42	00052 001539 RAM03:	867.
43	00053 001540 RAM04:	868.
44	00054 001541 RAM05:	869.
45	00055 001542 RAM06:	870.
46	00056 001543 RAM07:	871.
47	00057 001544 RAM08:	872.
48	00058 001545 RAM09:	873.
49	00059 001546 RAM10:	874.
50	00060 001547 RAM11:	875.
51	00061 001548 RAM12:	876.
52	00062 001549 RAM13:	877.
53	00063 001550 RAM14:	878.
54	00064 001551 RAM15:	879.
55	00065 001552 RAM16:	880.
56	00066 001553 RAM17:	
57	00067 001554 RAM18:	
58	00068 001555 RAM19:	
59	00069 001556 RAM20:	
60	00070 001557 TMC:	
61	00071 001558 R0:	
62	00072 001559 A0:	
63	00073 001560 A1:	
64	00074 001561 A2:	
65	00075 001562 A3:	
66	00076 001563 RWRM1:	
67	00077 001564 R/W RAM:	

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00377	001565 OCRY:	885.
02	00400 001566 M:	886.
03	00401 001567 S0:	887.
04	00402 001570 S1:	888.
05	00403 001571 S2:	889.
06	00404 001572 S3:	890.
07	00405 001573 CIN:	891.
08	00406 001574 ALU00:	892.
09	00407 001575 ALU01:	893.
10	00410 001576 ALU02:	894.
11	00411 001577 ALU03:	895.
12	00412 001600 ALU04:	896.
13	00413 001601 ALU05:	897.
14	00414 001602 ALU06:	898.
15	00415 001603 ALU07:	899.
16	00416 001604 ALU08:	900.
17	00417 001605 ALU09:	901.
18	00420 001606 ALU10:	902.
19	00421 001607 ALU11:	903.
20	00422 001610 ALU12:	904.
21	00423 001611 ALU13:	905.
22	00424 001612 ALU14:	906.
23	00425 001613 ALU15:	907.
24	00426 001614 E0, E2:	908.
25	00427 001615 SRST:	909.
26	00428 001616 RDL:	910.
27	00431 001617 TRAP:	911.
28	00432 001620 XMRT:	912.
29	00433 001621 XZ:	913.
30	00434 001622 RD00:	914.
31	00435 001623 EMPL:	915.
32	00436 001624 ARAC:	916.
33	00437 001625 PRCD:	917.
34	00440 001626 SMC:	918.
35	00441 001627 RD:	919.
36	00442 001630 PL:	920.
37	00443 001631 RSRT:	921.
38	00444 001632 DE17:	922.
39	00445 001633 RNSTP:	923.
40	00446 001634 DXPL:	924.
41	00447 001635 RNPL:	925.
42		
43	00450 001636 EXPL:	926.
44	00451 001637 INPL:	927.
45	00452 001640 RMRT:	928.
46	00453 001642 I:	929.
47	00454 001643 ST:	930.
48	00455 001644 XCLR:	931.
49	00456 001645 XX:	932.
50		
51	00457 001646 ENDO:	934.
52	00460 001647 XY:	935.
53		
1	00461 001650 CSRP:	936.
2	00462 001651 EJMP:	937.
3	00463 001652 MCS:	938.
57	00464 001653 RAOL:	939.
58	00465 001654 RWRM0:	940.
59	00466 001655 JUMP:	941.

0007	MAIN	
1	00467 001656 DE17:	942.
2	00470 001657 SKIP:	943.
3	00471 001660 STRT.:	944.
4	00472 001661 DE. :	945.
5	00473 001662 W. :	946.
6	00474 001663 P2. :	947.
7	00475 001664 P7. :	948.
8	00476 001665 P9. :	949.
9	00477 001666 XS. :	950.
10	00500 001667 YS. :	951.
11	00501 001670 FS. :	952.
12	00502 001671 SDEC.:	953.
13	00503 001672 XE. :	954.
14	00504 001673 YE. :	955.
15	00505 001674 CMS. :	956.
16	00506 001675 CF. :	957.
17	00507 001676 XS. :	958.
18	00510 001677 YS. :	959.
19	00511 001700 FS. :	960.
20	00512 001712 W. :	970.
21	00512 001713 LXY.:	971.
22	00514 001714 CXY.:	972.
23	00515 001715 CA. :	973.
24	00516 001716 LR. :	974.
25	00517 001717 GWY.:	975.
26	00520 001720 ARC. :	976.
27	00521 001722 IOMHZ.:	978.
28	00522 001753 PO. :	1003.
29	00523 001754 P1. :	1004.
30	00524 001755 P2. :	1005.
31	00525 001756 P3. :	1006.
32	00526 001757 P4. :	1007.
33	00527 001760 P5. :	1008.
34	00530 001761 P6. :	1009.
35	00531 001762 P7. :	1010.
36	00532 001763 P8. :	1011.
37	00533 001764 P9. :	1012.
38	00534 001765 PLL1.:	1013.
39	00535 001766 DE17P.:	1014.
40	00536 001767 DE17L.:	1015.
41	00537 002000 RIAD.:	1024.
42	00540 002001 DG14.:	1025.
43	00541 002002 CF. :	1026.
44		
45	00542 002003 ERST.:	1027.
46	00543 002004 DG13.:	1028.
47	00544 002005 SDEC.:	1029.
48		
49	00545 002006 SAD.:	1030.
50	00546 002007 DG15.:	1031.
51	00547 002010 DN. :	1032.
52	00550 002011 UP. :	1033.
53	00551 002012 TO. :	1034.
54	00552 002013 STPV.:	1035.
55	00553 002014 ERST.:	1036.
56	00554 002015 TSL. :	1037.
57	00555 002016 TICK.:	1038.
58	00556 002020 SLCTA.:	1040.
59	00557 002021 SLCTB.:	1041.

0008	MAIN		
1	00560 002023 CLKRS.	1043.	; CLK ROM STORAGE. USED TO STORE A & C PROMS
2			; OUTPUT.
3	00561 002024 GA:	1044.	
4	00562 002025 GXY:	1045.	
5	00563 002026 RAC0:	1046.	; ROM ADDRESS COUNTER BIT 0 (MSB).
6	00564 002027 RAC1:	1047.	
7	00565 002028 RAC2:	1048.	
8	00566 002029 RAC3:	1049.	
9	00567 002030 RAC4:	1050.	
10	00570 002033 RAC5:	1051.	
11	00571 002034 RAC6:	1052.	
12	00572 002035 RAC7:	1053.	
13	00573 002036 LRAC:	1054.	; LOAD ROM ADDR. COUNTER.
14	00574 002040 CTMP:	1056.	; CLK TEMP STORAGE.
15	00575 002041 FLOUT:	1057.	; PULSE OUT.
16	00576 002042 CSRL1:	1058.	; CLOSURE LATCH.
17	00577 002043 CSRL0:	1059.	
18	00600 002050 NTJ:	1064.	; NEGATIVE TEST OR JUMP.
19	00601 002051 EO:	1065.	
20	00602 002052 CARRY:	1066.	
21	00603 002053 PUS:	1067.	; PULL UP 9 VALID ON W. L. REV D & UP.
22	00604 002054 PU10:	1068.	; PULL UP 10 VALID ON W. L. REV D & UP.
23	00605 002055 PU11:	1069.	; PULL UP 11 VALID ON W. L. REV D & UP.
24	00606 002056 PU12:	1070.	; PULL UP 12 VALID ON W. L. REV D & UP.
25	00607 002057 DEL:	1071.	
26	00610 002060 HALT:	1072.	; HALT INST. IN MICRO COMPUTER. USED FOR
27			; DIAG. ONLY.
28	00611 002061 PUS:	1073.	
29	00612 002062 PU6:	1074.	
30	00613 002063 PU7:	1075.	
31	00614 002064 PUS:	1076.	
32	00615 002074 PO:	1084.	
33	00616 002075 RLP0:	1085.	; READ LATCH AND PO. SIGNAL WHICH GEN DATA
34			; CHANNEL SYNC WHEN MC NEEDS DATA.
35	00617 002076 MRP1:	1086.	; MRST AND PHASE 1.
36			; END

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A0	000372	5/54
A1	000373	5/56
A2	000374	5/57
A3	000375	5/58
ALU00	000406	6/08
ALU01	000407	6/09
ALU02	000410	6/10
ALU03	000411	6/11
ALU04	000412	6/12
ALU05	000413	6/13
ALU06	000414	6/14
ALU07	000415	6/15
ALU08	000416	6/16
ALU09	000417	6/17
ALU10	000420	6/18
ALU11	000421	6/19
ALU12	000422	6/20
ALU13	000423	6/21
ALU14	000424	6/22
ALU15	000425	6/23
ARAC	000436	6/32
ARC	000263	4/38
ARC.	000520	7/26
BDCHA	000147	2/01
BINTA	000023	1/24
BMSKO	000146	2/59
BROEN	000145	2/58
C0	000321	5/11
C1	000322	5/12
C2	000323	5/13
C3	000324	5/14
C4	000325	5/15
C5	000326	5/16
CA	000515	7/23
CAC00	000056	1/54
CAC01	000057	1/55
CAC02	000060	1/56
CAC03	000061	1/57
CAC04	000062	1/58
CAC05	000063	1/59
CAC06	000064	2/01
CAC07	000065	2/02
CAC08	000066	2/03
CAC09	000067	2/04
CAC10	000070	2/05
CAC11	000071	2/06
CAC12	000072	2/07
CAC13	000073	2/08
CAC14	000074	2/09
CAC15	000075	2/10
CAD	000271	4/44
CARRY	000682	8/20
CF	000506	7/16
CF.	000541	7/43
CIB	000176	3/26
CIDNE	000213	3/40
CIN	000405	6/07
CLDIR	000272	4/45
CLKRS	000560	8/01

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JLR	000124	2/35
CMS	000505	7/15
CNTR	000265	4/40
CNTR.	000270	4/43
CODN	000302	4/55
COMP	000277	4/51
COMP.	000307	5/01
CSRL0	000577	8/17
CSRL1	000576	8/16
CSRPL	000461	6/54
CT	000262	4/37
CTMP	000574	8/14
CTMP.	000230	5/19
CXY	000514	7/22
DATIA	000125	2/36
DATIB	000126	2/38
DATOA	000127	2/40
DATOB	000130	2/42
DATOC	000131	2/44
DBL	000607	8/25
DC11	000052	1/50
DC12	000053	1/51
DC13	000054	1/52
DC14	000055	1/53
DCHR.	000120	2/29
DCHO	000134	2/49
DCHR0	000166	3/16
DCHR.	000276	4/50
DCHE1	000167	3/17
DCPI	000170	3/18
DCPI.	000133	2/47
DCPO.	000144	2/57
DE17	000467	7/01
DE17L	000536	7/40
DE17P	000535	7/39
DE17.	000444	6/38
DE.	000472	7/04
DG10	000255	4/32
DG11	000214	3/41
DG13	000543	7/46
DG14	000540	7/42
DG15	000546	7/50
DG8	000257	4/34
DG9	000256	4/33
DGNS	000212	3/29
DI00	000076	2/11
DI01	000077	2/12
DI02	000100	2/13
DI03	000101	2/14
DI04	000102	2/15
DI05	000103	2/16
DI06	000104	2/17
DI07	000105	2/18
DI08	000106	2/19
DI09	000107	2/20
DI10	000110	2/21
DI11	000111	2/22
DI12	000112	2/23
DI13	000113	2/24

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JI14	000114	2/25
JI15	000115	2/26
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DLMR.	000267	4/42
DN	000547	7/51
D000	000932	1/33
D001	000032	1/25
D002	000034	1/26
D003	000035	1/37
D004	000036	1/38
D005	000037	1/39
D006	000040	1/40
D007	000041	1/41
D008	000042	1/42
D009	000043	1/43
D010	000044	1/44
D011	000045	1/45
D012	000046	1/46
D013	000047	1/47
D014	000050	1/48
D015	000051	1/49
D0DC	000174	3/23
D50	000135	2/50
D51	000136	2/51
D52	000137	2/52
D53	000140	2/53
D54	000141	2/54
D55	000142	2/55
DXPL.	000446	6/40
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EJMP.	000462	6/55
EMPL.	000435	6/31
ENDG.	000457	6/51
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EQ	000601	8/19
ERST	000553	7/55
ERST.	000542	7/45
EXPL.	000450	6/43
FS	000501	7/11
FS.	000511	7/19
GA	000561	8/03
GIDC	000001	1/06
GND	000227	5/17
GODC	000000	1/05
GRST.	000151	3/03
GXY	000562	8/04
GXY.	000517	7/25
HALT.	000610	8/26
I	000453	6/46
I0MHz	000254	4/31
I0X	000207	3/36
IABY.	000253	4/30
IB0	000202	3/32
IB1	000204	3/33
IB2	000205	3/34
ICBY	000252	4/28
ICBY.	000251	4/26
ICDT	000250	4/24
ICDT.	000247	4/22

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ICLR.	000156	2/88
ICROM	000316	5/88
IDNE0	000218	3/37
IDNE1	000216	3/44
IIR0	000164	2/14
IIR1	000026	1/27
IMSK0	000320	5/10
INPL.	000451	6/44
INTAM	000121	2/31
INTR.	000220	3/46
IOMHZ	000521	7/27
IORT	000122	2/33
IPI	000025	1/26
IPI.	000122	2/46
IPO.	000143	2/56
IRST	000152	3/84
IRST.	000153	3/85
IX	000260	4/35
JUMP	000466	6/59
LA	000516	7/24
LEADO	000266	3/35
LRAC.	000573	8/13
LKY	000513	7/21
M	000480	6/82
MCS.	000463	6/56
MDCO	000172	3/21
MDCO.	000171	3/20
MDIA	000031	1/32
MDIA.	000160	3/10
MDIB.	000027	1/28
MDCA.	000161	3/11
MDOB.	000162	3/12
MDOC	000163	3/13
MNS	000261	4/26
MON.	000030	1/30
MRP1.	000617	6/35
MRST.	000274	4/47
MS	000264	4/39
MSKO.	000117	2/26
MTKE.	000301	4/54
NB00.	000021	1/22
NB01.	000020	1/21
NB02.	000017	1/20
NB03.	000016	1/19
NB04.	000015	1/18
NB05.	000014	1/17
NB06.	000013	1/16
NB07.	000012	1/15
NB08.	000011	1/14
NB09.	000010	1/13
NB10.	000007	1/12
NB11.	000006	1/11
NB12.	000005	1/10
NB13.	000004	1/09
NB14.	000003	1/08
NB15.	000002	1/07
NTJ.	000600	8/18
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ODNE1	000232	3/48
OIPI	000022	1/23
OIRO	000165	3/15
OIR1	000024	1/25
OMSKO	000304	4/57
ORST	000306	4/59
ORST.	000150	3/02
OSRT	000155	3/07
OSRT.	000154	3/06
P1	000523	7/29
P2	000474	7/06
P2.	000524	7/30
P2.	000525	7/31
P4.	000526	7/32
P5.	000527	7/33
P6.	000530	7/34
P7	000475	7/07
P7.	000531	7/35
P8.	000532	7/36
P9.	000476	7/08
P9.	000533	7/37
PLL1	000534	7/38
PLOUT	000575	8/15
PL	000442	6/36
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PQ	000522	7/28
PRCD.	000437	6/33
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PU1	000605	8/23
PU_2	000606	8/24
PU_	000313	5/05
PU	000314	5/06
PU	000315	5/07
PU3	000611	8/28
PU6	000612	8/29
PU7	000613	8/30
PU8	000614	8/31
PU9	000603	8/21
RAC0	000563	8/05
RAC1	000564	8/06
RAC2	000565	8/07
RAC3	000566	8/08
RAC4	000567	8/09
RAC5	000570	8/10
RAC6	000571	8/11
RAC7	000572	8/12
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RAM03	000355	5/41
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